



SUBSTITUTE SEQUENCE LISTING

<110> RIKEN
KABUSHIKI KAISHA DNAFORM

<120> Method for utilizing the 5'end of mRNA for cloning and analysis

<130> 1336(PCT) [035576/285978]

<140> US 10/517,544
<141> 2005-06-09

<150> JP 2002-171851
<151> 2002-06-12

<150> JP 2002-235294
<151> 2002-08-12

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<170> PatentIn version 3.1

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tttttttttt ttvn 74

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<210> 8
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<220>
<223> Primer 1 (uni-PCR)

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gagagagaga ctttaggtga cacta 25

<210> 9
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<223> Primer 2 (MmeI-PCR)

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agagagagaa ctaggcttaa taggtgacta gatctggagg nnnnn 45

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<400> 21
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<400> 22
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<210> 23
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<400> 23
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 <210> 25
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 caggaaacag ctatgac 17

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 <400> 27
 gtaaaacgac ggccag 16

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 cggacctaga gtttttcgta tgtttgatcat cgtcggacct aggtccgacg gtccattcct 180
 gagagtctct ctagggtccga cgagagagag aggatccttc tgtctagacc ctgacgccgg 240
 aaccgcaccg tcggacctag gtccgacgga aaagcagctt cctccactct aggtccgacg 300
 gtgtgtgtgt gtgtgcgtgt tctagagact ggttcagatc aaaagtcgtc ggacctaggt 360
 ccgacggggc tggtgagatg gctcagtcta gatgcatgct cgagcggccg ccagtgtgat 420
 ggatatctgc cnaatnccag cacaccggcg cgcgcnacca gtggatccga gcccgggtacc 480
 aagcttgatg catacctcga gtatcctata ctgtcaccta aatagcttgg ggtaatcatg 540
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<210> 30
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gccgccgggg	acgcttgctc	cctccctgcc	ccctacacgg	cgtccctcag	gcgcccccat	420
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cgggcgccacc	ccctgcacgc	cgccttcac	cccgccctgt	ctcctgagcc	cccgcgcac	540
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cctccccacc	acaccagccc	tgttcgcgct	ctcggcagtg	ccggggggcg	ccgcctcccc	840
c atg ccg ccc tcc ggg ctg cgg ctg ctg ccg ctg ctg cta ccg ctg ctg	Met Pro Pro Ser Gly Leu Arg Leu Leu Pro Leu Leu Leu Pro Leu Leu					889
1	5	10	15			
tgg cta ctg gtg ctg acg cct ggc ccg ccg gcc gcg gga cta tcc acc						937
Trp Leu Leu Val Leu Thr Pro Gly Pro Pro Ala Ala Gly Leu Ser Thr						
20	25	30				
tgc aag act atc gac atg gag ctg gtg aag cgg aag cgc atc gag gcc						985
Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala						
35	40	45				
atc cgc ggc cag atc ctg tcc aag ctg cgg ctc gcc agc ccc ccg agc						1033
Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser						
50	55	60				
cag ggg gag gtg ccg ccc ggc ccg ctg ccc gag gcc gtg ctc gcc ctg						1081
Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu						
65	70	75	80			
tac aac agc acc cgc gac cgg gtg gcc ggg gag agt gca gaa ccg gag						1129
Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu						
85	90	95				
ccc gag cct gag gcc gac tac tac gcc aag gag gtc acc cgc gtg cta						1177
Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu						
100	105	110				
atg gtg gaa acc cac aac gaa atc tat gac aag ttc aag cag agt aca						1225
Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr						
115	120	125				
cac agc ata tat atg ttc ttc aac aca tca gag ctc cga gaa gcg gta						1273
His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val						
130	135	140				
cct gaa ccc gtg ttg ctc tcc cgg gca gag ctg cgt ctg ctg agg agg						1321
Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Arg						
145	150	155	160			
ctc aag tta aaa gtg gag cag cac gtg gag ctg tac cag aaa tac agc						1369
Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser						
165	170	175				
aac aat tcc tgg cga tac ctc agc aac cgg ctg ctg gca ccc agc gac						1417
Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp						
180	185	190				
tcg cca gag tgg tta tct ttt gat gtc acc gga gtt gtg cgg cag tgg						1465
Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg Gln Trp						
195	200	205				
ttg agc cgt gga ggg gaa att gag ggc ttt cgc ctt agc gcc cac tgc						1513
Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala His Cys						
210	215	220				

tcc tgt gac agc agg gat aac aca ctg caa gtg gac atc aac ggg ttc	1561
Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn Gly Phe	
225 230 235 240	
act acc ggc cgc cga ggt gac ctg gcc acc att cat ggc atg aac cgg	1609
Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met Asn Arg	
245 250 255	
cct ttc ctg ctt ctc atg gcc acc ccg ctg gag agg gcc cag cat ctg	1657
Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln His Leu	
260 265 270	
caa agc tcc cgg cac cgc cga gcc ctg gac acc aac tat tgc ttc agc	1705
Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys Phe Ser	
275 280 285	
tcc acg gag aag aac tgc tgc cgg cag ctg tac att gac ttc cgc	1753
Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe Arg	
290 295 300	
aag gac ctc ggc tgg aag tgg atc cac gag ccc aag ggc tac cat gcc	1801
Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala	
305 310 315 320	
aac ttc tgc ctc ggg ccc tgc ccc tac att tgg agc ctg gac acg cag	1849
Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln	
325 330 335	
tac agc aag gtc ctg gcc ctg tac aac cag cat aac ccg ggc gcc tcg	1897
Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser	
340 345 350	
gcg gcg ccg tgc tgc gtg ccg cag gcg ctg gag ccg ctg ccc atc gtg	1945
Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val	
355 360 365	
tac tac gtg ggc cgc aag ccc aag gtg gag cag ctg tcc aac atg atc	1993
Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile	
370 375 380	
gtg cgc tcc tgc aag tgc agc tga ggtccccgcc cgccccgcc cgccccggca	2047
Val Arg Ser Cys Lys Cys Ser	
385 390	
ggccccggccc caccgccccc cgcccccgct gccttgccca tgggggctgt atttaaggac	2107
accgtgcccc aagccacact gggggcccat taaagatgga gagaggactg cggatctctg	2167
tgtcattggg cgctgectg ggggtctccat ccctgacgtt cccccactcc cactccctct	2227
ctctccctct ctgctctctc ctgctgtct gcactattcc tttgcccggc atcaaggcac	2287
aggggaccag tggggaacac tactgtagtt agatctatatt attgagcacc ttgggcaactg	2347
ttgaagtgcc ttacattaat gaactcattc agtcaccata gcaacactct gagatggcag	2407
ggactctgat aacacccatt ttaaagggtt aggaacaag ccagagagg ttaaggagg	2467
agtctctgcc caccaggaac ctgctttagt gggggatagt gaagaagaca ataaaagata	2527
gtagttcagg ccaggcgggg tgctcacgcc tgtaatccta gcacttttg gaggcagaga	2587
tgggaggata cttgaatcca ggcatttgag accagcctgg gtaacatagt gagaccctat	2647
ctctacaaaa cacttttaaa aaatgtacac ctgtggtccc agctactctg gaggctaagg	2707
tgggaggatc acttgatcct gggaggtcaa ggctgcag	2745

<210> 77
 <211> 391
 <212> PRT
 <213> Homo sapiens

<400> 77

Met	Pro	Pro	Ser	Gly	Leu	Arg	Leu	Leu	Pro	Leu	Leu	Leu	Pro	Leu	Leu
1				5				10					15		
Trp	Leu	Leu	Val	Leu	Thr	Pro	Gly	Pro	Pro	Ala	Ala	Gly	Leu	Ser	Thr

20

25

30

Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala
 35 40 45
 Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser
 50 55 60
 Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu
 65 70 75 80
 Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu
 85 90 95
 Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu
 100 105 110
 Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr
 115 120 125
 His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val
 130 135 140
 Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Arg
 145 150 155 160
 Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser
 165 170 175
 Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp
 180 185 190
 Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg Gln Trp
 195 200 205
 Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala His Cys
 210 215 220
 Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn Gly Phe
 225 230 235 240
 Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met Asn Arg
 245 250 255
 Pro Phe Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln His Leu
 260 265 270
 Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys Phe Ser
 275 280 285
 Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe Arg
 290 295 300
 Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala
 305 310 315 320
 Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln
 325 330 335
 Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser
 340 345 350
 Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val
 355 360 365
 Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile
 370 375 380
 Val Arg Ser Cys Lys Cys Ser
 385 390

<210> 78

<211> 596

<212> DNA

<213> Artificial Sequence

<220>

<223> pZeRO-1 vector with masked portions

<220>

<221> misc_feature

<222> (1)...(596)

<223> "n" = any nucleotide

<400> 78

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tcgttannnn nnnnnnnnnn nnnnnnnnnn nngtcgacga gttctcagca gagccgccgt 60
ctagagcccc gccctcccgg gccaccgtcg gacctagaat agttactcga ggtctctcgt 120
cggacctaga gtttttcgta tgtttgtcat cgctcggacct aggtccgacg gtccattcct 180
gagagtctct ctaggtccga cgagagagag aggatccttc tgtctagacc ctgacgccgg 240
aaccgcaccg tcggacctag gtccgacgga aaagcagctt cctccactct aggtccgacg 300
gtgtgtgtgt gtgtgcgtgt tctagagact ggttcagatc aaaagtcgtc ggacctagggt 360
ccgacggggc tggtagatg gctcagnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnng 596
```

<210> 79

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> Linker

<400> 79

```
tctaggtccg acg 13
```

<210> 80

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> Linker

<400> 80

```
cctaggtccg acg 13
```

<210> 81

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> Linker

<400> 81

```
tctaggtccg acg 13
```

<210> 82

<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Linker

<400> 82
cctaggtccg acg 13

<210> 83
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Linker

<400> 83
cctaggtccg acg 13

<210> 84
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Linker

<400> 84
tctaggtccg acg 13

<210> 85
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Linker

<400> 85
cctaggtccg acg 13

<210> 86
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Linker

<400> 86
cctaggtccg acg 13

<210> 87
 <211> 597
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> zzb21305i03t3 masked vector

<220>
 <221> misc_feature
 <222> (1)...(597)
 <223> n = any nucleotide

<400> 87
 tcggttannnn nnnnnnnnnn nnnnnnnnnn nngtcgacga gttctcagca gagccgccgt 60
 ctagagcccc gccctcccg gccacnnnnn nnnnnnnnat agttactcga ggtctctnnn 120
 nnnnnnnnng tttttcgat gtttgatcatn nnnnnnnnnn nnnnnnnnng tccattcctg 180
 agagtctcnn nnnnnnnnnn nagagagaga ggatccttct gtctagacct gacgccggaa 240
 ccgcacnnnn nnnnnnnnnn nnnnnngaaa agcagcttcc tctccacnn nnnnnnnnnn 300
 nggtgtgtgtg tgtgtgcgtg ttctagagac tggttcagat caaaagttnn nnnnnnnnnn 360
 nnnnnnnnggg ctggtgagat ggctcagnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnng 597

<210> 88
 <211> 596
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> zzb21305i03t3 vector

<220>
 <221> misc_feature
 <222> (1)...(596)
 <223> n = any nucleotide

<400> 88
 tcggttannnn nnnnnnnnnn nnnnnnnnnn nngtcgacga gttctcagca gagccgccgn 60
 nnnnnngcccc gccctcccg gccacnnnnn nnnnnnnnat agttactcga ggtctctnnn 120
 nnnnnnnnng tttttcgat gtttgatcatn nnnnnnnnnn nnnnnnnnng tccattcctg 180
 agagagtctc nnnnnnnnnn nnnagagaga gaggatcctc tgtctagacc tgacgccgga 240
 accgccacnn nnnnnnnnnn nnnnnnnnga aaagcagctt cctccacnnn nnnnnnnnnn 300
 gtgtgtgtgt gtgtgcgtgt tctagagact ggttcagatc aaaagttnnn nnnnnnnnnn 360
 nnnnnngggc tggtagatg gctcagnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn 540
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnng 596

<210> 89
 <211> 569
 <212> DNA

<213> Artificial Sequence

<220>

<223> zzb21106I09T3.scf vector

<220>

<221> misc_feature

<222> (1)...(569)

<223> n = any nucleotide

<400> 89

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cattagggga ttggggcccn nnnnnnnnnn ngtagcctct cgcacccgcg nnnnnnacct 60
tcgacacgca caccacnnnn nnnnnnnnnn nnnnnnatgg accgagggcc ccagccnnnn 120
nnnnnnnnnc ggatcgggtg ggtcggacnn nnnnacgaac tgctgcgacc tctnnnnnnn 180
nnnnnnncaca gcgcgggctc cggagannnn nnnnnnnnnc tcggagcctg caaagtctnn 240
nnnnnnnnnn ntccggcgct gcggcagctc cnnnnnnnnn nnnngcgacc aggtccgacg 300
gtgtnnnnnn nnnnnngac tctgggagag aacgtctnnn nnnnnnnnnn nnnnnnggcc 360
gttccttgct tgctggannn nnctgagct aaatcccaaa cccnnnnnnn nnnnnnnnnn 420
nnngagtaac tataacggct ctnnnnnnngc gagctccagg cgggaatcnn nnnnnnnnnn 480
accggggggg cgggactaac cgtcggacnn nnnnnnnnnn nagggaccgc tgcggtccgn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn                    569
```

<210> 90

<211> 607

<212> DNA

<213> Artificial Sequence

<220>

<223> zzc20401c11t3 masked vector

<220>

<221> misc_feature

<222> (1)...(607)

<223> n = any nucleotide

<400> 90

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tgataaggca atggcctcta atgctgnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nngccgccgc gccttcgcgc tcnnnnnnnn nnnnnnnnnn nngagggccg ccgcccgccc 120
tcnnnnnnna gttttttttt tttttttgnn nnnnnnnnnn nnnnnnnngg gcagagcgag 180
cagagcctnn nnnngtctgt cagaatcaga agtnnnnnnn nnnnnnnnnn nnnngctttgc 240
agacgccact gtannnnnaa agtccacctg gactttccnn nnnnnnnnnn nnnnnnnncc 300
tgcgcgccct cggcggcnnn nnaaactctg ttatacata acnnnnnnnn nnnnnnnnnn 360
nnagagactg aacagcgggc ganannnnca gccatcttgc cccacctnnn nnnnnnnnnn 420
nnnnnnngct tgccttctgg ccatgccnnn nnncccccct ctatgcgtgc gtcnnnnnnn 480
nnnnnnnnnn nnnagtgtgg ctgttccatg gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnng                    607
```

<210> 91

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Tag sequence

<400> 91
 acctccctcc gcggag 16

<210> 92
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Tag sequence

<400> 92
 gtggtgtgcg tgtcgaaggt 20

<210> 93
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Tag sequence

<400> 93
 gacgcggaag gcgcggcggc 20

<210> 94
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Exemplary elongation strand

<220>
 <221> misc_feature
 <222> (1)...(60)
 <223> n = any nucleotide

<400> 94
 agagagagac ctcgagtaac tataacggtc ctaaggtagc gacctaggtc cgacnnnnnn 60

<210> 95
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Exemplary 1st strand cDNA

<400> 95
 tctctctctg gagctcattg atattgccag gattccatcg ctggatccag cgtg 54

<210> 96
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Exemplary elongation strand

 <220>
 <221> misc_feature
 <222> (1)...(48)
 <223> n = any nucleotide

 <400> 96
 agagagagaa ctaggcttct taataggtga agatctggag gnnnnnnn 48

 <210> 97
 <211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Exemplary 1st cDNA strand

 <400> 97
 tctctatctt gatccgaaga attatccact tctagacctc 40

 <210> 98
 <211> 51
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Exemplary elongation strand

 <220>
 <221> misc_feature
 <222> (1)...(51)
 <223> n = any nucleotide

 <400> 98
 agagagagaa ctaggcttct taataggtga ggcgcgcctg gaggnnnnnn n 51

 <210> 99
 <211> 43
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Exemplary 1st cDNA strand

 <400> 99
 tctctatctt gatccgaaga attatccact ccgcgcggac etc 43

<210> 100
 <211> 49
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Exemplary elongation strand

 <220>
 <221> misc_feature
 <222> (1)...(49)
 <223> n = any nucleotide

 <400> 100
 agagagagag cttagatgag agtgactcga gcctaggtcc aacgnnnnn 49

 <210> 101
 <211> 43
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Exemplary 1st cDNA strand

 <400> 101
 tctctctctc gaatctactc tctactgagct cggatccagg ttg 43

 <210> 102
 <211> 77
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Exemplary elongation strand

 <220>
 <221> misc_feature
 <222> (1)...(77)
 <223> n = any nucleotide

 <400> 102
 cctaggtccg acnnnnnnnnn nnnnnnnnnn nntctagatc aggactcttc tatagtgtca 60
 cctaaagtct ctctctc 77

 <210> 103
 <211> 79
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Exemplary 1st cDNA strand

```

<220>
<221> misc_feature
<222> (1)...(79)
<223> n = any nucleotide

<400> 103
ggatccaggc tgnnnnnnnn nnnnnnnnnn nnnnagatct agtcctgaga agatatcaca 60
gtggatttca gagagagag                                         79

<210> 104
<211> 71
<212> DNA
<213> Artificial Sequence

<220>
<223> Exemplary elongation strand

<220>
<221> misc_feature
<222> (1)...(71)
<223> n = any nucleotide

<400> 104
agatctggag nnnnnnnnnn nnnnnngaatt tctcaggact attctatagt gtcacctaaa 60
gtctctctct c                                         71

<210> 105
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Exemplary 1st cDNA strand

<220>
<221> misc_feature
<222> (1)...(73)
<223> n = any nucleotide

<400> 105
tctagacctc nnnnnnnnnn nnnnnnnnct taagagtcct gagaagatat cacagtggat 60
ttcagagaga gag                                         73

<210> 106
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Exemplary elongation strand

<220>
<221> misc_feature
<222> (1)...(73)

```

<223> n = any nucleotide

<400> 106

gcgcgcctgg agnnnnnnnnn nnnnnnnnga attctcagga ctattctata gtgtcaccta 60
aagtctctct ctc 73

<210> '107

<211> 76

<212> DNA

<213> Artificial Sequence

<220>

<223> Exemplary 1st cDNA strand

<220>

<221> misc_feature

<222> (1)...(76)

<223> n = any nucleotide

<400> 107

ccgcgcggac ctannnnnnnn nnnnnnnnnn ncttaagagt cctgagaaga tatcacagtg 60
gatttcagag agagag 76

<210> 108

<211> 74

<212> DNA

<213> Artificial Sequence

<220>

<223> Exemplary elongation strand

<220>

<221> misc_feature

<222> (1)...(74)

<223> n = any nucleotide

<400> 108

cctaggtcca acnnnnnnnnn nnnnnnnnnn nngaattcta cgctctcga tcgaaatccc 60
gatctaggct agcg 74

<210> 109

<211> 74

<212> DNA

<213> Artificial Sequence

<220>

<223> Exemplary 1st cDNA strand

<220>

<221> misc_feature

<222> (1)...(74)

<223> n = any nucleotide

<400> 109

ggatccaggt tgnnnnnnnn nnnnnnnnnn ncttaagat gcggagagcg tgaatcgagt 60
ttaaaggctag catc 74

<210> 110
<211> 68
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA fragment for concatemer production

<220>
<221> misc_feature
<222> (1)...(68)
<223> n = any nucleotide

<400> 110
tctagannnn nnnnnnnnnn nnnnngtcgg acctaggtcc gacnnnnnnn nnnnnnnnnn 60
nntctaga 68

<210> 111
<211> 68
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA fragment for concatemer production

<220>
<221> misc_feature
<222> (1)...(68)
<223> n = any nucleotide

<400> 111
agatctnnnn nnnnnnnnnn nnnnncagcc tggatccagg ctgnnnnnnn nnnnnnnnnn 60
nnagatct 68

<210> 112
<211> 68
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA fragment for concatemer production

<220>
<221> misc_feature
<222> (1)...(68)
<223> n = any nucleotide

<400> 112
tctagannnn nnnnnnnnnn nnnnngtcgg acctagannn nnnnnnnnnn nnnnnngtcg 60
gacctaga 68

<210> 113
 <211> 68
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA fragment for concatemer production

 <220>
 <221> misc_feature
 <222> (1)...(68)
 <223> n = any nucleotide

 <400> 113
 agatctnnnn nnnnnnnnnn nnnnncagcc tggatctnnn nnnnnnnnnn nnnnnncagc 60
 ctggatct 68

 <210> 114
 <211> 57
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA fragment for concatemer production

 <220>
 <221> misc_feature
 <222> (1)...(57)
 <223> n = any nucleotide

 <400> 114
 gaattcnnnn nnnnnnnnnn nntccagat ctggagnnnn nnnnnnnnnn ngaattc 57

 <210> 115
 <211> 57
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA fragment for concatemer production

 <220>
 <221> misc_feature
 <222> (1)...(57)
 <223> n = any nucleotide

 <400> 115
 cttagnnnn nnnnnnnnnn nngaggtcta gacctcnnnn nnnnnnnnnn ncttaag 57

 <210> 116
 <211> 63
 <212> DNA
 <213> Artificial Sequence

```

<220>
<223> DNA fragment for concatemer production

<220>
<221> misc_feature
<222> (1)...(63)
<223> n = any nucleotide

<400> 116
gaattcnnnnn nnnnnnnnnn nncctccagg cgcgcttgga ggnnnnnnnnn nnnnnnngaa 60
ttc                                                    63

<210> 117
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA fragment for concatemer production

<220>
<221> misc_feature
<222> (1)...(63)
<223> n = any nucleotide

<400> 117
cttaagnnnn nnnnnnnnnn nnggaggtcc gcgcggacct ccnnnnnnnnn nnnnnnnctt 60
aag                                                    63

<210> 118
<211> 68
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA fragment for concatemer production

<220>
<221> misc_feature
<222> (1)...(68)
<223> n = any nucleotide

<400> 118
gaattcnnnnn nnnnnnnnnn nnnnngttgg acctaggtcc aacnnnnnnn nnnnnnnnnn 60
nngaattc                                                    68

<210> 119
<211> 68
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA fragment for concatemer production

```

<220>
<221> misc_feature
<222> (1)...(68)
<223> n = any nucleotide

<400> 119
cttaagnnnn nnnnnnnnnn nnnnncaacc tggatccagg ttgnnnnnnn nnnnnnnnnn 60
nncttaag 68